**SOURCE CODE**

import tkinter as tk

from bs4 import BeautifulSoup

import joblib

from sklearn.feature\_extraction.text import TfidfVectorizer

def remove\_html\_tags(text):

soup = BeautifulSoup(text, 'html.parser')

return soup.get\_text()

def predict\_result(body):

# Preprocess the input data

body = remove\_html\_tags(body)

# Load the trained KNN model from the file

knn\_model = joblib.load('knn\_model.pkl')

# Make prediction on the input data using the KNN model

prediction\_knn = knn\_model.predict([body])[0]

if prediction\_knn == 1:

return "Toxic Comment"

else:

return "Normal Comment"

def on\_predict\_button\_click():

body = text\_body.get("1.0", "end-1c") # Get text from Tkinter Text widget

# Get the prediction

prediction = predict\_result(body)

print(prediction)

if "Toxic Comment" in prediction:

block\_websites()

else:

unblock\_websites()

# Display the result

result\_label.config(text=f"Predicted Result: {prediction}")

sites\_to\_block = [

"www.instagram.com",

"https://www.instagram.com",

"instagram.com",

"https://www.instagram.com/"

]

Window\_host = r"C:\Windows\System32\drivers\etc\hosts"

default\_hoster = Window\_host

redirect = "127.0.0.1"

# Function to block websites

def block\_websites():

with open(default\_hoster, "r+") as hostfile:

hosts = hostfile.readlines()

hostfile.seek(0)

for host in hosts:

if not any(site in host for site in sites\_to\_block):

hostfile.write(host)

hostfile.truncate()

for site in sites\_to\_block:

with open(default\_hoster, "a") as hostfile:

hostfile.write(redirect + " " + site + "\n")

# Function to unblock websites

def unblock\_websites():

with open(default\_hoster, "r+") as hostfile:

hosts = hostfile.readlines()

hostfile.seek(0)

for host in hosts:

if any(site in host for site in sites\_to\_block):

continue

hostfile.write(host)

hostfile.truncate()

# Use age prediction to decide whether to block websites

# Create the main Tkinter window

root = tk.Tk()

root.title("Text Classification Prediction")

# Create Tkinter widgets

label\_body = tk.Label(root, text="comment:")

text\_body = tk.Text(root, height=10, width=50)

button\_predict = tk.Button(root, text="Predict", command=on\_predict\_button\_click)

result\_label = tk.Label(root, text="Predicted Result: ")

# Place widgets on the window

label\_body.grid(row=0, column=0, padx=10, pady=5, sticky="w")

text\_body.grid(row=0, column=1, padx=10, pady=5, columnspan=2, sticky="w")

button\_predict.grid(row=1, column=0, columnspan=3, pady=10)

result\_label.grid(row=2, column=0, columnspan=3, pady=10)

# Start the Tkinter event loop

root.mainloop()